

SEGFR_ST25.txt
SEQUENCE LISTING

<110> Maihle, Nita
Baron, Andre

<120> Soluble Epidermal Growth Factor Receptor-Like Proteins and Their
Uses in Cancer Detection Methods

<130> 07-277

<140> 09/676,380

<141> 2000-09-29

<150> US 60/157,144

<151> 1999-09-30

<160> 54

<170> PatentIn version 3.5

<210> 1

<211> 705

<212> PRT

<213> Homo sapiens

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Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp His Phe
35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
50 55 60

Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
65 70 75 80

Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
85 90 95

Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr
100 105 110

Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
115 120 125

Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
130 135 140

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His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu
 145 150 155 160
 Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met
 165 170 175
 Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys Asp Pro
 180 185 190
 Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
 195 200 205
 Lys Leu Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg Cys Arg
 210 215 220
 Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys
 225 230 235 240
 Thr Gly Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe Arg Asp
 245 250 255
 Glu Ala Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro
 260 265 270
 Thr Thr Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly
 275 280 285
 Ala Thr Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His
 290 295 300
 Gly Ser Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu
 305 310 315 320
 Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg Lys Val
 325 330 335
 Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
 340 345 350
 Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
 355 360 365
 Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
 370 375 380
 Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
 385 390 395 400

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Ile Thr Gly Phe Leu₄₀₅ Leu Ile Gln Ala Trp₄₁₀ Pro Glu Asn Arg Thr₄₁₅ Asp
 Leu His Ala Phe₄₂₀ Glu Asn Leu Glu Ile₄₂₅ Ile Arg Gly Arg Thr₄₃₀ Lys Gln
 His Gly Gln Phe Ser Leu Ala Val₄₄₀ Val Ser Leu Asn Ile₄₄₅ Thr Ser Leu
 Gly Leu₄₅₀ Arg Ser Leu Lys Glu₄₅₅ Ile Ser Asp Gly Asp₄₆₀ Val Ile Ile Ser
 Gly₄₆₅ Asn Lys Asn Leu Cys₄₇₀ Tyr Ala Asn Thr Ile₄₇₅ Asn Trp Lys Lys Leu₄₈₀
 Phe Gly Thr Ser Gly₄₈₅ Gln Lys Thr Lys Ile₄₉₀ Ile Ser Asn Arg Gly₄₉₅ Glu
 Asn Ser Cys Lys₅₀₀ Ala Thr Gly Gln Val₅₀₅ Cys His Ala Leu Cys₅₁₀ Ser Pro
 Glu Gly Cys₅₁₅ Trp Gly Pro Glu Pro₅₂₀ Arg Asp Cys Val Ser₅₂₅ Cys Arg Asn
 Val Ser₅₃₀ Arg Gly Arg Glu Cys₅₃₅ Val Asp Lys Cys Asn₅₄₀ Leu Leu Glu Gly
 Glu Pro Arg Glu Phe Val₅₅₀ Glu Asn Ser Glu Cys₅₅₅ Ile Gln Cys His Pro₅₆₀
 Glu Cys Leu Pro Gln₅₆₅ Ala Met Asn Ile Thr₅₇₀ Cys Thr Gly Arg Gly₅₇₅ Pro
 Asp Asn Cys Ile₅₈₀ Gln Cys Ala His Tyr₅₈₅ Ile Asp Gly Pro His₅₉₀ Cys Val
 Lys Thr Cys₅₉₅ Pro Ala Gly Val Met₆₀₀ Gly Glu Asn Asn Thr₆₀₅ Leu Val Trp
 Lys Tyr₆₁₀ Ala Asp Ala Gly His₆₁₅ Val Cys His Leu Cys₆₂₀ His Pro Asn Cys
 Thr Tyr Gly Pro Gly Asn₆₃₀ Glu Ser Leu Lys Ala₆₃₅ Met Leu Phe Cys Leu₆₄₀
 Phe Lys Leu Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His

Gln Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
660 665 670

Ser Leu Leu Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His
675 680 685

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690 695 700

His
705

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 <213> Homo sapiens

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35     40     45
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50     55     60
Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
65     70     75     80
Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
85     90     95
Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr
100    105    110
Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
115    120    125
Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
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His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu
145    150    155    160
Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met
165    170    175
Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys Asp Pro
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Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
195    200    205
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Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys
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Glu Ala Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro
260 265 270

Thr Thr Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly
275 280 285

Ala Thr Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His
290 295 300

Gly Ser Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu
305 310 315 320

Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg Lys Val
325 330 335

Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
340 345 350

Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
355 360 365

Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
370 375 380

Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
385 390 395 400

Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
405 410 415

Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
420 425 430

His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
435 440 445

Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
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Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
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Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
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Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
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Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
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Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
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Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro
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Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
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Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

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<213> Homo sapiens

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35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
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SEGFR_ST25.txt

Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
65 70 75 80

Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
85 90 95

Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr
100 105 110

Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
115 120 125

Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
130 135 140

His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu
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Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met
165 170 175

Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys Asp Pro
180 185 190

Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
195 200 205

Lys Leu Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg Cys Arg
210 215 220

Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys
225 230 235 240

Thr Gly Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe Arg Asp
245 250 255

Glu Ala Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro
260 265 270

Thr Thr Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly
275 280 285

Ala Thr Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His
290 295 300

Gly Ser Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu
305 310 315 320

SEGFR_ST25.txt

Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg Lys Val
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 Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
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 Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
 355 360 365
 Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
 370 375 380
 Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
 385 390 395 400
 Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
 405 410 415
 Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
 420 425 430
 His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
 435 440 445
 Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
 450 455 460
 Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
 465 470 475 480
 Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
 485 490 495
 Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
 500 505 510
 Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser Cys Arg Asn
 515 520 525
 Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
 530 535 540
 Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
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 Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro

565

575

Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
580 585 590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro Asn Cys
610 615 620

Thr Tyr Gly Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu
625 630 635 640

Phe Lys Leu Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His
645 650 655

Arg Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
660 665 670

Ser Leu Leu Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His
675 680 685

Leu His Ala Trp Pro Ser Ala Ser Val Ile Ile Thr Ala Ser Ser Cys
690 695 700

His
705

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<212> PRT
<213> Homo sapiens

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Met Arg Pro Ser Gly Thr Ala Gly Ala Ala Leu Leu Ala Leu Ala
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Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp His Phe
35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
50 55 60

Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys

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65					70					75					80	
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Tyr	Glu	Asn ₁₁₅	Ser	Tyr	Ala	Leu	Ala ₁₂₀	Val	Leu	Ser	Asn	Tyr ₁₂₅	Asp	Ala	Asn	
Lys	Thr ₁₃₀	Gly	Leu	Lys	Glu	Leu ₁₃₅	Pro	Met	Arg	Asn	Leu ₁₄₀	Gln	Glu	Ile	Leu	
His ₁₄₅	Gly	Ala	Val	Arg	Phe ₁₅₀	Ser	Asn	Asn	Pro	Ala ₁₅₅	Leu	Cys	Asn	Val	Glu ₁₆₀	
Ser	Ile	Gln	Trp	Arg ₁₆₅	Asp	Ile	Val	Ser	Ser ₁₇₀	Asp	Phe	Leu	Ser	Asn ₁₇₅	Met	
Ser	Met	Asp	Phe ₁₈₀	Gln	Asn	His	Leu	Gly ₁₈₅	Ser	Cys	Gln	Lys	Cys ₁₉₀	Asp	Pro	
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Lys	Leu ₂₁₀	Thr	Lys	Ile	Ile	Cys ₂₁₅	Ala	Gln	Gln	Cys	Ser ₂₂₀	Gly	Arg	Cys	Arg	
Gly ₂₂₅	Lys	Ser	Pro	Ser	Asp ₂₃₀	Cys	Cys	His	Asn	Gln ₂₃₅	Cys	Ala	Ala	Gly	Cys ₂₄₀	
Thr	Gly	Pro	Arg	Glu ₂₄₅	Ser	Asp	Cys	Leu	Val ₂₅₀	Cys	Arg	Lys	Phe	Arg ₂₅₅	Asp	
Glu	Ala	Thr	Cys ₂₆₀	Lys	Asp	Thr	Cys	Pro ₂₆₅	Pro	Leu	Met	Leu	Tyr ₂₇₀	Asn	Pro	
Thr	Thr	Tyr ₂₇₅	Gln	Met	Asp	Val	Asn ₂₈₀	Pro	Glu	Gly	Lys	Tyr ₂₈₅	Ser	Phe	Gly	
Ala	Thr ₂₉₀	Cys	Val	Lys	Lys	Cys ₂₉₅	Pro	Arg	Asn	Tyr	Val ₃₀₀	Val	Thr	Asp	His	
Gly ₃₀₅	Ser	Cys	Val	Arg	Ala ₃₁₀	Cys	Gly	Ala	Asp	Ser ₃₁₅	Tyr	Glu	Met	Glu	Glu ₃₂₀	

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325 330 335

Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
340 345 350

Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
355 360 365

Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
370 375 380

Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
385 390 395 400

Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
405 410 415

Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
420 425 430

His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
435 440 445

Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
450 455 460

Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
465 470 475 480

Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
485 490 495

Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
500 505 510

Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser Cys Arg Asn
515 520 525

Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
530 535 540

Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
545 550 555 560

Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro
565 570 575

SEGFR_ST25.txt

Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
580 585 590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro Asn Cys
610 615 620

Thr Tyr Gly Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu
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Phe Lys Leu Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His
645 650 655

Gln Ser Gly Ser Leu Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
660 665 670

Ser Leu Leu Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His
675 680 685

Leu His Ala Trp Pro Ser Ala Ser Val Ile Ile Thr Ala Ser Ser Cys
690 695 700

His
705

<210> 6
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<212> PRT
<213> Homo sapiens

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Met Arg Pro Ser Gly Thr Ala Gly Ala Ala Leu Leu Ala Leu Leu Ala
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Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp His Phe
35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn
50 55 60

Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys
65 70 75 80

SEGFR_ST25.txt

Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val
85 90

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Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp Ala Asn
115 120 125

Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu Ile Leu
130 135 140

His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn Val Glu
145 150 155 160

Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser Asn Met
165 170 175

Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys Asp Pro
180 185 190

Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn Cys Gln
195 200 205

Lys Leu Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg Cys Arg
210 215 220

Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala Gly Cys
225 230 235 240

Thr Gly Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe Arg Asp
245 250 255

Glu Ala Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro
260 265 270

Thr Thr Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly
275 280 285

Ala Thr Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His
290 295 300

Gly Ser Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu
305 310 315 320

Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg Lys Val
325 330 335

SEGFR_ST25.txt

Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser Ile Asn
340 345 350

Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser Gly Asp
355 360 365

Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr His Thr
370 375 380

Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val Lys Glu
385 390 395 400

Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg Thr Asp
405 410 415

Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr Lys Gln
420 425 430

His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr Ser Leu
435 440 445

Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile Ile Ser
450 455 460

Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys Lys Leu
465 470 475 480

Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg Gly Glu
485 490 495

Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys Ser Pro
500 505 510

Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser Cys Arg Asn
515 520 525

Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Asn Leu Leu Glu Gly
530 535 540

Glu Pro Arg Glu Phe Val Glu Asn Ser Glu Cys Ile Gln Cys His Pro
545 550 555 560

Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr Gly Arg Gly Pro
565 570 575

Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys Val
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580

585

590

Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn Thr Leu Val Trp
595 600 605

Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro Asn Cys
610 615 620

Thr Tyr Gly Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu
625 630 635 640

Phe Lys Leu Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His
645 650 655

Gln Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro
660 665 670

Ser Leu Leu Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His
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Leu His Ala Trp Pro Ser Ala Ser Val Ile Ile Thr Ala Ser Phe Cys
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His
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SEGFR_ST25.txt

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Tyr

<210> 15
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Asp Ser Tyr Glu Asn Ile Glu Glu Asp Gly Val Arg Lys Cys Lys Lys
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Cys Glu Gly Pro Cys Arg Lys
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SEGFR_ST25.txt

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<400> 16

Phe Arg Gly Asp Ser Phe Thr His Thr Pro Pro Leu Asp Pro Gln Glu
 1 5 10 15

Leu Asp

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<400> 17

Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His Cys
 1 5 10

<210> 18
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 <212> PRT
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<400> 18

Ser Val Ser His Gln Ser Gly Ser Pro Ala Ala Gln Glu Ser Cys Leu
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 20 25 30

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Gly Gly Cys Ser His Leu His Leu His Ala Trp Pro Ser Ala Ser Val
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Ile Ile Thr Ala Ser Ser Cys His
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SEGFR_ST25.txt

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Ala Asn Cys Thr Tyr Gly Cys Ala Gly Pro Gly Leu Gln Gly Cys Glu
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20 25 30

Trp Ile

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<211> 53

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Gly Pro Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly Pro His
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20 25 30

Val Trp Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys His Pro
35 40 45

Asn Cys Thr Tyr Gly
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Asp Ser Ala Met His Arg Val Pro Gly Arg Ala Cys Val Val Gln Cys
20 25 30

Cys Thr Ser Gln Gln Glu Gly Arg Gly Thr Lys Glu His Arg Ser Trp
35 40 45

Gln Leu Pro Gln Ser Pro Gly Ala Phe Ala Phe Leu Ser Arg Phe Leu
50 55 60

Arg Leu Thr Trp Gly Leu Ala Val Leu Gln
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SEGFR_ST25.txt

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Lys Thr Ile Ile
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Cys Ala Ser Val Ser Leu His Gln Tyr Leu Tyr Ile Ser Ile Ser Val
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Ser Val Ser Ile Cys Cys Trp Ala
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Met Cys Asp Tyr Ile Pro Asp Ser Glu Pro Phe
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<400> 27

Ile Tyr Asp Val His Asn Ile Pro Glu Tyr Ile Val Ser Leu Ile Ser
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Gln Met Gly Cys Ile Ala Phe Ser Ile Ser Ile Val Lys Glu Thr Leu
 20 25 30

SEGFR_ST25.txt

Thr Gly Val Ser Leu Thr Thr Cys Glu Gln Gln His Gln Ser Pro Asp
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Tyr Ser Ile Ser Ser Cys
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Gly Phe Leu

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Ala Leu Thr Ser Phe Ser Pro Ala Ala Pro Ser Cys His Cys Pro Cys
20 25 30

Pro Ala Ser Leu Gln Gly Ser Thr Gly Leu Pro Phe Pro Thr Ser Leu
35 40 45

Ser Gln Leu Leu Val Ser Asn Pro Tyr Gly Cys Pro Lys Ala Phe Ser
50 55 60

Glu Pro Ala
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Pro Val Leu Pro Leu Ser Leu Ser Ser Phe Ser Ser Arg Val Asn Trp
1 5 10 15

Ser Thr Phe Pro Tyr Lys Ser Val Thr Ala Ser Cys
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20 25 SEGFR_ST25.txt

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Pro Gly Asn Glu Ser Leu Lys Ala Met Leu Phe Cys Leu Phe Lys Leu
 1 5 10 15

Ser Ser Cys Asn Gln Ser Asn Asp Gly Ser Val Ser His Gln Ser Gly
 20 25 30

Ser Pro Ala Ala Gln Glu Ser Cys Leu Gly Trp Ile Pro Ser Leu Leu
 35 40 45

Pro Ser Glu Phe Gln Leu Gly Trp Gly Gly Cys Ser His Leu His Ala
 50 55 60

Trp Pro Ser Ala Ser Val Ile Ile Thr Ala Ser Ser Cys His
 65 70 75

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<400> 32

Val Ser Ala Gly Leu Gly Trp Met Gln Pro Pro Pro Cys Leu Ala Phe
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Cys Ile Cys Asp His His Gly Leu Leu Leu Pro Leu Ser Leu Met Pro
 20 25 30

Ser Arg Val Cys Ser Pro Arg Phe Ser Phe Leu Pro Pro Leu His Val
 35 40 45

Gly Arg Gln Val Pro Lys Ser Ile Leu Pro Ile Ser Phe Leu Pro Leu
 50 55 60

Pro Leu Pro Val Pro Leu Thr Pro Thr Ser Ser
 65 70 75

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SEGFR_ST25.txt

Cys Thr Gly Pro Gly Leu Glu Gly Cys Pro Thr Asn Gly
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<400> 34

His Thr Ala Gln Gln Arg Gln Lys Gly Phe Leu Gln His Gln Leu Trp
1 5 10 15

Pro Val Cys Gln Ser Lys Ala Leu Arg Lys Ala Arg Leu Lys Ser Leu
20 25 30

Ile Gln Thr His Gln Glu Arg Val Val Leu Leu Ser Met Ala Ser Ser
35 40 45

Gln Glu Ser Trp Asn Thr Tyr Pro Ser Thr Cys Leu Pro Phe Trp Met
50 55 60

Phe Pro Asn Met Asn Gln Thr Ser Arg Pro Leu Cys His Leu Trp
65 70 75

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Glu Leu Leu Gly His Pro Ala Glu Leu Pro His Ser Thr Leu Gln Ser
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Gln Gly Ser

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<211> 17
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Ser Tyr Ile Val Ser His Phe Pro Arg Ser Phe Tyr Lys Met Ser Val
1 5 10 15

His

<210> 37

SEGFR_ST25.txt

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<400> 37

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Leu Leu Val Val Ala Leu Gly Ile Gly Leu Phe Met Arg Arg Arg His
20 25 30

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35 40 45

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gtagggggac aaaagagcac aggtcctggc agctgccaca gtctccaggg gcttttgcgt 180
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SEGFR_ST25.txt

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 aactgggtcta cttttcccta caagtctgtc acagcttctt gtttagcaatc cctatgggtg 180
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SEGFR_ST25.txt

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tgcttaggat ggatcccttc tcttctgccg tcagagtttc agctgggttg ggggtggatgc 180
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<211> 232

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tgatcatcac ggcctcctcc tgccactgag cctcatgcct tcacgtgtct gttcccccg 120
cttttccttt ctgccacccc tgcacgtggg ccgccagggtt cccaagagta tcctacccat 180
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agtgggtgta ctctcgatgg cgtctagcca ggaatcatgg aattatacac cgagcacctg 180
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SEGFR_ST25.txt

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 gcggaggctg ctgcaggaga gggag 145